

The Science of Environmental Justice Working Conference May 24 - 26, 2004

Boston University
George Sherman Union
775 Commonwealth Avenue
Boston, Massachusetts

www.namsinc.org/ejworkshop/



Science to Action:
Community-based Participatory
Research and Cumulative Risk Analysis as
Tools to Advance Environmental Justice in
Urban, Suburban and Rural Communities

Presented by:
U.S. EPA New England
U.S. EPA Research and Development
Boston University School of Public Health



Overview

This conference represents the first Regional Science Program Workshop sponsored by EPA's national Office of Research and Development focusing on environmental justice. The conference will bring together diverse stakeholders from across the country, including scientists, technical experts, community leaders, nonprofit groups, academia and government representatives. Participants will learn from each other about the tools, innovative models and progress that has been made to address the scientific needs of urban, suburban and rural communities. Key topics of the conference include community-based participatory research, cumulative risk, air toxics, asthma, children's environmental health, land-based risks and water quality.

Goal

To provide an interactive, educational forum joining together stakeholders from across the country to discuss current efforts in community-based participatory research and cumulative risk analysis that are helping to assess, address and resolve environmental and public health risks in urban, suburban and rural areas.

Outcomes

1. Increased awareness of environmental justice for participants.
2. Recommendations to EPA for new research priorities to promote environmental justice.
3. Strategies to translate currently available and future research into action and policies that better address environmental justice concerns.

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Welcome

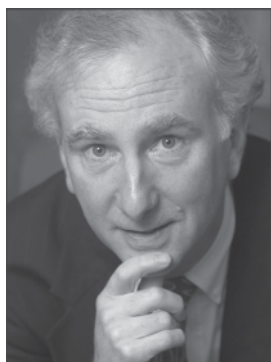


Robert W. Varney

Regional Administrator, EPA New England

One of EPA New England's highest and most challenging priorities is to promote environmental justice. The agency continues to focus attention on the environmental and human health conditions of minority and low-income communities, which often bear a disproportionate impact from pollution. EPA New England is pleased to co-host this conference with EPA's Office of Research and Development, Boston University's School of Public Health and our community partners who are leaders in the fields of cumulative risk analysis and community-based participatory research.

The region's Environmental Justice and Urban Environmental Programs, as well as the Conference Planning Committee deserve a special note of thanks for conceptualizing and planning this unique event. We are all here because we want to make a difference and support healthy, sustainable communities. I hope that this working conference will start to move "science to action" to address environmental justice concerns across the nation.



Paul Gilman

Assistant Administrator for Research and Development, EPA

The EPA Office of Research and Development is pleased to sponsor this conference, which is the first Regional Science Program Workshop focused on the scientific needs of urban, suburban and rural communities. The breadth of topics featured—including air toxics, asthma, water pollution, land-based risks and children's environmental health concerns—have one thing in common: they pose a cumulative risk to many communities that are exposed to multiple pollutants and sources of pollution. By bringing together scientists, technical experts, community leaders, nonprofit groups, academia and government representatives, it is my hope that this conference will provide a unique

opportunity for these diverse stakeholders to identify research priorities and strategies to address environmental justice concerns. Eleanor Roosevelt once said, "Understanding is a two-way street." I challenge participants to listen and learn from one another to better serve communities facing multiple environmental and public health risks.



Roberta F. White

Chair, Department of Environmental Health, Boston University School of Public Health

The Boston University School of Public Health is committed to supporting environmental health research and is proud to co-host this conference. Community-based research methods are an important part of the school's environmental health research agenda. Besides taking courses in toxicology, risk assessment and epidemiology, students are exposed to the social and political context of environmental health, including issues of social disparity and environmental sustainability. Current community-based research efforts include the Healthy Public Housing Initiative, Indoor Air Quality in Boston Public Housing, the Dorchester Lead-Safe Yard Project and Democratizing Urban

Natural Assets: Chelsea River. The unique dialogue expected to take place during this conference between the academic community, scientists, community leaders and government representatives promises to push the community-based research agenda forward.

Special Events

All participants are invited to attend two special events during the conference sponsored by the Boston University (BU) School of Public Health.

Field Trip

Monday, May 24 • 2:00 pm - 4:00 pm

Ziskin Lounge, BU's George Sherman Union

775 Commonwealth Avenue

A bus tour of Chelsea and East Boston, MA, will be led by representatives from two local community-based organizations and will illustrate environmental justice concerns. Chelsea and East Boston have populations of 35,000 and 38,000, with over 50 percent of residents representing people of color and more than 20 percent falling below the poverty level. Some of the most pressing environmental justice concerns that local residents face include lack of open and green space, limited waterfront access; numerous state-designated hazardous waste sites; heavy concentration of industries in a designated port area; traffic; and air pollution.

The two-hour field trip will visit areas around the Chelsea River and Mill Creek. The tour will be narrated by Roseann Bongiovanni, from the Chelsea Green Space and Recreation Committee (Green Space), and Stacey Chacker, from the Neighborhood of Affordable Housing (NOAH) in East Boston. Green Space, a project of the Chelsea Human Services Collaborative, is a broad-based community committee addressing some of the worst environmental problems in Chelsea. NOAH is a community development corporation which focuses on affordable housing and participates in many resident-driven initiatives for neighborhood improvement and environmental justice. Residents of Chelsea and East Boston, together with Green Space, NOAH and the Urban Ecology Institute at Boston College, have formed the Chelsea Creek Restoration Partnership (CCRP) to reclaim the Chelsea Creek as an environmental, recreational, economic and educational asset. In 2003, EPA recognized the CCRP as one of 15 national Interagency Working Group on Environmental Justice Revitalization Demonstration Projects. Pre-registration for the field trip is required.

Social Event

Tuesday, May 25 • 6:00 pm

The Castle, 225 Bay State Road

Network with conference participants and presenters at this informal social hour at The Castle, BU's vine-covered Tudor revival mansion. The cost per person for this event is \$10.00 which must be paid to the BU School of Public Health in cash during conference registration. The fee includes a selection of hors d'oeuvres. Beverages can be purchased at the cash bar. Pre-registration for the social event is required.

Displays

Exhibits created by conference participants and EPA New England staff will be on display throughout the conference in the Ziskin Lounge. Posters and free-standing table top exhibits will showcase tools, activities, organizations and projects across the nation. Exhibits will range from informational displays about participating organizations to technical displays outlining research projects and methodologies. All conference participants are invited to create a display and are encouraged to visit the area during conference breaks.



Agenda At A Glance

Monday, May 24

2:00 pm - 4:00 pm Field Trip

Tuesday, May 25

8:00 am - 9:00 am Registration/Coffee

9:00 am - 9:20 am Conference Welcome

9:20 am - 10:00 am Keynote Speech

10:00 am - 10:15 am Break

10:15 am - 12:30 pm Morning Plenary Forum

12:30 pm - 1:30 pm Lunch (on your own)

1:30 pm - 4:00 pm Afternoon Plenary Forum

6:00 pm Social Event

Wednesday, May 26

8:00 am - 8:30 am Coffee

8:30 am - 9:00 am Opening Address

9:00 am - 11:00 am Concurrent Panel Presentations (Topics 1-5)

11:00 am - 11:15 am Break

11:15 am - 12:30 pm Small Group Discussions

12:30 pm - 1:30 pm Lunch (on your own)

1:30 pm - 2:30 pm Afternoon Plenary Forum

2:30 pm - 2:45 pm Break

2:45 pm - 4:00 pm Closing Session

Detailed Agenda

Monday, May 24

2:00 pm - 4:00 pm **Field Trip • Depart from Ziskin Lounge**

Tuesday, May 25

8:00 am - 9:00 am **Registration/Coffee • Ziskin Lounge**

9:00 am - 9:20 am **Conference Welcome • Metcalf Large Ballroom**

Robert W. Varney, Regional Administrator, EPA New England

William H. Farland, Acting Deputy Assistant Administrator for Science, EPA

*Roberta F. White, Chair, Department of Environmental Health,
Boston University School of Public Health*

Convener

Swati Prakash, Director of Environmental Health, West Harlem Environmental Action

9:20 am - 10:00 am **Keynote Speech • Metcalf Large Ballroom**

*H. Patricia Hynes, Professor, Department of Environmental Health, Boston
University School of Public Health*

10:00 am - 10:15 am **Break**

10:15 am - 12:30 pm **Morning Plenary Forum • Metcalf Large Ballroom**

**Assessing and Understanding Cumulative Risk in Environmental Justice
Communities**

Moderator: Michael Callahan, EPA Region 6

*Panelists: Roseann Bongiovanni, Chelsea Human Services Collaborative and
Stacey Chacker, Neighborhood of Affordable Housing
Michael Callahan, EPA Region 6
Reginald Harris, EPA Region 3
Wilma Subra, Louisiana Environmental Action Network*

12:30 pm - 1:30 pm **Lunch (on your own)**

1:30 pm - 4:00 pm **Afternoon Plenary Forum • Metcalf Large Ballroom**

**Community-Based Participatory Research in Urban, Suburban and Rural
Environmental Justice Communities**

Moderator: Swati Prakash, West Harlem Environmental Action

*Panelists: Rebecca Calderon, EPA Office of Research and Development
Gary Grant, Concerned Citizens of Tillery and Steve Wing, University
of North Carolina School of Public Health
Madeleine Kangsen Scammell, Boston University School of Public Health
Peggy Shepard, West Harlem Environmental Action*

6:00 pm

Social Event

The Castle, 225 Bay State Road

Wednesday, May 26

8:00 am - 8:30 am **Coffee • Ziskin Lounge**

8:30 am - 9:00 am **Opening Address • Metcalf Large Ballroom**

Swati Prakash, Director of Environmental Health, West Harlem Environmental Action
Speaker: *Ira Leighton*, Deputy Regional Administrator, EPA New England

9:00 am - 11:00 am **Concurrent Panel Presentations**

Topics: Air Toxics, Asthma, Children's Environmental Health,
Land-based Risks and Water Quality

Topic 1

Air Toxics • Conference Auditorium

Moderator: *Devon Payne-Sturges*, EPA Office of Policy, Economics and Innovation

Panelists: *Azibuike Akaba*, Committee for West Oakland Revitalization

Rachel Morello-Frosch, Brown Medical School and Center for
Environmental Studies

Ted Palma, EPA Office of Air Quality Planning and Standards

Wilma Subra, Louisiana Environmental Action Network

Timothy H. Watkins, EPA Office of Research and Development

Topic 2

Asthma • Metcalf Small Ballroom

Moderator: *H. Patricia Hynes*, Boston University School of Public Health

Panelists: *Marian Feinberg*, South Bronx Clean Air Coalition

Jonathan Levy, Harvard School of Public Health

MaryJane Selgrade, EPA Office of Research and Development

Eileen Storey, University of Connecticut Health Center

Topic 3

Children's Environmental Health • Metcalf Large Ballroom

Moderator: *Kristi N. Rea*, EPA New England

Panelists: *Sarah Keim*, National Institutes of Health

Virginia Rauh, Columbia University Mailman School of Public Health

Maryann Suero, EPA Region 5

Daniel Swartz, Children's Environmental Health Network

Ryan Torres, Lead Action Collaborative

Topic 4

Land-based Risks • East Balcony

Moderators: *Robert Hillger*, EPA New England

Ariel Iglesias, EPA Region 2

Panelists: *J. Kyle Bryant*, Academic Institutions-Communities-Agencies Network

Gary Grant, Concerned Citizens of Tillery and *Steve Wing*, University of
North Carolina School of Public Health

Jack Hale, Knox Parks Foundation

Glenn Rice, EPA Office of Research and Development

Nicholas Targ, EPA Office of Environmental Justice

(continued on next page)

Detailed Agenda (cont.)

Wednesday, May 26

Topic 5

Water Quality • Terrace Lounge

Moderator: **Reginald Harris**, EPA Region 3

Panelists: **Rebecca Calderon**, EPA Office of Research and Development
May A. Cornwall, Virgin Islands Resource Conservation & Development Council
Rodney Davis, Arbor Hill Environmental Justice Corporation
Graciela Ramírez-Toro, National Environmental Justice Advisory Council and Interamerican University of Puerto Rico
Rita Schoeny, EPA Office of Water

11:00 am - 11:15 am **Break**

11:15 am - 12:30 pm **Small Group Discussions • Locations TBA**

Same topics as Concurrent Panel Presentations. Participants will engage in facilitated, small group discussions to identify key research needs and priorities for future action. Locations will be announced at the end of the panel presentations.

12:30 pm - 1:30 pm **Lunch (on your own)**

1:30 pm - 2:30 pm **Afternoon Plenary Session • Metcalf Large Ballroom**

Conference participants will gather and hear brief reports from each of the concurrent morning workshops, including a summary of panel presentation highlights and key themes emerging from the small group discussions.

2:30 pm - 2:45 am **Break**

2:45 pm - 4:00 pm **Closing Session • Metcalf Large Ballroom**

This session will be an opportunity for participants to provide feedback, identify key emerging themes and discuss next steps.

Speakers: **Michael Callahan**, EPA Region 6

Mildred McClain, Citizens for Environmental Justice

Moderator: **H. Patricia Hynes**, Professor, Department of Environmental Health, Boston University School of Public Health



Keynote

H. Patricia Hynes

*Professor, Department of Environmental Health,
Boston University School of Public Health*

Professor Hynes teaches environmental health at the Boston University (BU) School of Public Health and directs the Urban Environmental Health Initiative, which focuses on the issues of urban environment, environmental justice and feminism. Professor Hynes works to widen the intersection of the university and the community through community-based research and teaching, with the goal of using public health knowledge for education, action and social change.

An environmental engineer, Professor Hynes served as Section Chief in the Hazardous Waste Division at EPA New England and as Chief of Environmental Management at the Massachusetts Port Authority. For her work in the EPA's Superfund Program, she won the Environmental Service Award of the Massachusetts Association of Conservation Commissions. Professor Hynes is the author of *The Recurring Silent Spring* (Pergamon, 1989); *EarthRight* (Prima, 1990); *Taking Population out of the Equation: Reformulating I=PAT* (Institute on Women and Technology, 1993); and *A Patch of Eden: America's Inner-City Gardeners* (Chelsea Green, 1996), which won the 1996 National Arbor Day Foundation Book Award.

Professor Hynes has worked with many community-based organizations, and serves on the Advisory Board of the Coalition Against Trafficking in Women and the Cumulative Risks/Impact Working Group of the National Environmental Justice Advisory Council to the EPA. She was Co-Director of the Lead-Safe Yard Project, funded by EPA, and is currently Co-Director of the Healthy Public Housing Initiative in Boston, funded by the U.S. Department of Housing and Urban Development and numerous foundations. Professor Hynes is also the Assistant Director of the Prevention Research Center at BU's School of Public Health, which is funded by the Centers for Disease Control and Prevention.



Convener

Swati Prakash

Director of Environmental Health, West Harlem Environmental Action

Ms. Prakash is the Director of Environmental Health for West Harlem Environmental Action, where she provides technical assistance and support for community organizing efforts to improve environmental health, both locally and nationally. Ms. Prakash also collaborates with the Columbia University Mailman School of Public Health on several community-based research projects addressing asthma, air pollution and children's health. An environmental justice activist since high school, Ms. Prakash received a master's degree in Environmental Health from the Harvard School of Public Health, and a bachelor's degree in Environmental Science and Public Policy

from Harvard College. She has been trained in community organizing by the Center for Third World Organizing, is a fellow in the national Environmental Leadership Program and a board member of the Public Health Association of New York City. Ms. Prakash has worked for EPA New England, and has served on the National Council of the Greens/Green Party USA and the Student Environmental Action Coalition. Ms. Prakash currently resides in Harlem, NY.

Assessing and Understanding Cumulative Risk in Environmental Justice Communities
Tuesday, May 25

10:15 am - 12:30 pm • Metcalf Large Ballroom

Overview

Since the 1970s, traditional risk assessments have often been performed to address chemicals one at a time. Citizens and community organizations raised questions and concerns about multi-chemical risks from multiple sources, and EPA has responded. In the late 1990s, EPA began to research “cumulative risk assessment,” or assessment of risks from more than one chemical (and other stressors) acting together. EPA’s 2003 report, *Framework for Cumulative Risk Assessment (Framework)*, specifically lays out several new issues to be considered for community risk assessments, including population vulnerability, risks from non-chemical stressors and how chemicals and other stressors may interact to change the default dose-response relationships. This plenary session will review what is new in the *Framework* report, as well as summarize the findings of a subgroup under the National Environmental Justice Advisory Committee concerning future implementation of the concepts outlined in the *Framework*. The session will include presentations about vulnerability and other cumulative risk issues using case studies from various communities.

Moderator:

Michael Callahan, Senior Science Advisor and Office of Research and Development Regional Liaison, EPA Region 6, Dallas, TX

Roseann Bongiovanni, Director, Chelsea Green Space and Recreation Committee, Chelsea Human Services Collaborative, Chelsea, MA and Stacey Chacker, Director, Community Building and the Environment, Neighborhood of Affordable Housing, East Boston, MA

Chelsea Creek Community-based Comparative Risk Assessment

Ms. Chacker and Ms. Bongiovanni will present a summary of the Chelsea Creek Community-based Comparative Risk Assessment, a two-year project which gave community residents the opportunity to identify concerns and make recommendations for addressing environmental, public health and social issues. The presentation will walk through the community process, challenges, data results and recommendations for the issues of ambient air quality, water quality, open/green space, asthma and respiratory ailments, noise and traffic in East Boston and Chelsea, MA.

Morning Forum

**Michael Callahan, Senior Science Advisor and Office of Research and Development Regional Liaison,
EPA Region 6, Dallas, TX**

EPA Framework for Cumulative Risk Assessment

Mr. Callahan will present the EPA *Framework for Cumulative Risk Assessment*, published in May 2003. This report presents several new concepts that are not usually found in conventional risk assessments dealing with chemicals. Concepts include vulnerability and the effects of other factors rarely encountered in conventional risk assessments such as chronic stress. The *Framework* describes the concepts and issues involved in cumulative risk assessment, but is not a protocol for doing assessments.

**Reginald Harris, Environmental Justice Coordinator and Senior Toxicologist,
EPA Region 3, Philadelphia, PA**

Chester, PA Cumulative Risk Study

Mr. Harris will address the history, methodology, and findings of the Chester, PA Cumulative Risk Study. Topics will include the roles played by the various partners in the planning and conduct of this study, lessons learned, roles played by government and the community, implications of the findings, and the potential for future efforts of this type as related to the study of cumulative risk and community-based participatory research.

Wilma Subra, Louisiana Environmental Action Network, Baton Rouge, LA

The National Environmental Justice Advisory Council's Report on Environmental Justice and Cumulative Risks/Impacts

Ms. Subra, who is a member of the National Environmental Justice Advisory Council (NEJAC) to the Administrator of EPA will address the recently published NEJAC draft report entitled, "Ensuring Risk Reduction in Communities with Multiple Stressors: Environmental Justice and Cumulative Risks/Impacts." Ms. Subra will present an overview of the report including the topics of vulnerability of communities and the linkage to environmental justice.

Tuesday, May 25

Community-based Participatory Research in Urban, Suburban and Rural Environmental Justice Communities

Tuesday, May 25

1:30 pm - 4:00 pm • Metcalf Large Ballroom

Overview

Since the early 1980s, the national environmental justice movement has called attention to the ways in which traditional approaches to environmental and health research often do not adequately assess or represent communities of color and other disproportionately burdened communities. Community-based participatory research emphasizes place-based assessment and participation of affected community members and is one approach to research that can represent local realities and empower community participants. This plenary session will focus on defining the basic elements of community-based participatory research and present case studies on how this approach delivers benefits for environmental health research in communities of color. The session will conclude with a discussion on policy implications and long-term needs for maximizing the potential of community-based participatory research to assess and improve environmental health for all communities.

Moderator:

Swati Prakash, Director of Environmental Health, West Harlem Environmental Action, Bronx, NY

Rebecca Calderon, Director, Human Studies Division, National Health Effects Research Laboratory, EPA Office of Research and Development, Research Triangle Park, NC

Lessons from EPA's Environmental Epidemiologic Studies

Dr. Calderon will present the experience of the EPA Office of Research and Development in conducting community-based research. EPA's intramural research program has conducted studies on the effect of air and water pollution on a diverse group of populations including, children, elderly, Hispanics and rural poor. Specific issues on recruitment and risk communication that have arisen while conducting research will be addressed.

Gary Grant, Executive Director, Concerned Citizens of Tillery, NC

Promoting Environmental Justice and Impacting Policy with Community-driven Research

and

Steve Wing, Associate Professor, Department of Epidemiology, University of North Carolina School of Public Health, Chapel Hill, NC

Improving Environmental Health Science Through Partnerships in Communities Impacted by Environmental Injustice

Mr. Grant and Dr. Wing will address how communities impacted by environmental injustices can participate in environmental health research and improve the ethics, scientific rigor and public health impacts of environmental health projects. The presentation will showcase the process of meaningful community involvement including transforming study questions, study design, data analysis and interpretation of evidence.

Afternoon Forum

**Madeleine Kangsen Scammell, Doctoral Student, Department of Environmental Health,
Boston University School of Public Health, Boston, MA**

**Histories and Connections between Community-based Participatory Research and
Environmental Justice**

Ms. Scammell will present a brief history of community-based participatory research (CBPR), linking its rise in popularity with the emergence of the environmental justice movement. Ms. Scammell will also discuss the connection between CBPR and environmental justice programs exemplified by events including the publication of the 1999 Institute of Medicine report, *Toward Environmental Justice: Research, Education, and Health Policy Needs*.

Peggy Shepard, Executive Director, West Harlem Environmental Action, New York, NY

Advancing Environmental Justice Through Community-based Participatory Research

Ms. Shepard will present an overview of the advantages and potential for community-based participatory research (CBPR) to advance the goals of environmental justice, focusing on improving environmental health in low-income communities and communities of color. Drawing from the rich history of WE ACT's involvement in CBPR, Ms. Shepard will share a definition, review key principles, discuss the potential and challenges and conclude by recommending changes in policy and practice that can help fully realize the potential of CBPR.

Tuesday, May 25

Concurrent Panel Presentations & Small Group Discussions

Wednesday, May 26 • 9:00 am - 12:30 pm

Topic 1: Air Toxics

Wednesday, May 26

9:00 am - 12:30 pm • Conference Auditorium

Overview

Exposure to hazardous air pollutants presents significant environmental justice and public health concerns. Hazardous air pollutants, also known as air toxics, have been associated with many adverse human health effects, including cancers, asthma and other respiratory ailments, and neurological problems such as learning disabilities and hyperactivity. Sources of air toxics include industrial emissions from chemical manufacturing; refineries and waste incineration; emissions from smaller stationary facilities such as dry cleaners; and exhaust from mobile sources such as cars, buses and trucks. Air toxics are also found in consumer products including paints, household cleaners and computer printer cartridges. Emissions from all these diverse sources affect the indoor and outdoor environment. The purpose of this panel is to provide an overview of air toxics (e.g. sources, exposure and health effects); research that has documented disparities in exposure; community-based efforts to reduce exposure; and EPA activities to reduce air toxic emissions and health impacts.

Moderator:

Devon Payne-Sturges, Environmental Health Scientist, Public Health and Environmental Policy Team, National Center for Environmental Economics, EPA Office of Policy, Economics and Innovation, Washington, D.C.

Azibuike Akaba, Community Technical Assistance Coordinator, Committee for West Oakland Revitalization, Oakland, CA

Clearing the Air: Reducing Diesel Pollution in West Oakland

Mr. Akaba will present efforts by the West Oakland Environmental Indicators Project and the Coalition for West Oakland Revitalization to assess and address toxic diesel pollution in West Oakland, CA. This project was based on community ideas, employed residents to conduct on-the-ground research, and examined innovative ways to reduce truck traffic and pollution in residential areas to improve community health.

Rachel Morello-Frosch, Assistant Professor, Department of Community Health, Brown University Medical School and Center for Environmental Studies, Providence, RI
Separate But Unequal? Examining the Relationship Between Residential Segregation and Air Quality in U.S. Metropolitan Areas

Dr. Morello-Frosch will present her research, which draws on data from EPA's National Air Toxics Assessment to analyze how residential segregation is related to spatial ambient pollution exposures and estimated lifetime cancer risks. Her analysis reveals that disparities in environmental exposures play an important role in the persistent, disparate health status of the poor and people of color in the United States. Spatial separation of population groups by race/ethnicity, income and class mirrors many health and social inequalities which persist in the social organization of U.S. cities.

Present & Discuss



Ted Palma, Physical Scientist, Risk and Exposure Assessment Group, EPA Office of Air Quality Planning and Standards, Research Triangle Park, NC

National-scale Air Toxics Assessment and Residual Risk

Mr. Palma will address the 2002 EPA National Air Toxics Assessment for 33 air toxics which was representative of 1996 and efforts to update the assessment with new data and additional air toxics. He will also share insight into EPA's residual risk programs, which are designed to reduce air toxic emissions based on potential health implications.

Wilma Subra, Louisiana Environmental Action Network, Baton Rouge, LA

Air Toxics in African American Communities in the Industrial Areas of Louisiana

Ms. Subra will present an approach for collecting and compiling data to document, identify and define the levels and frequency of air toxics in fence-line communities around industrial facilities. Community organizations used data on air toxics data generated by local, state and federal agencies and industries to understand local risks and promote toxics reduction. Community efforts achieved decreases in the rate of accidental releases and changes in policies that result in cleaner air for their communities.

Timothy H. Watkins, Assistant Laboratory Director, National Exposure Research Laboratory, EPA Office of Research and Development, Research Triangle Park, NC

Air Toxics "101"

Mr. Watkins will present a brief overview of air toxics and EPA's programs to address associated public health and environmental risks. Topics to be covered include the types and sources of toxic air pollutants, as well as issues relating to exposure and health effects from air toxics. Mr. Watkins will also discuss EPA's programs to reduce the risks associated with air toxics and describe how these programs differ from criteria pollutant programs.

(continued)

Wednesday, May 26

Concurrent Panel Presentation & Small Group Discussions (cont.)

Wednesday, May 26 • 9:00 am - 12:30 pm

Topic 2: Asthma

Wednesday, May 26

9:00 am - 12:30 pm • Metcalf Small Ballroom

Overview

Asthma is a multi-factorial disease of the lung and has increased in the United States by approximately 75 percent since 1980. Asthma is the leading cause of school absence and the leading reason for emergency room visits among children. A growing number of studies are finding that asthma prevalence and hospitalization rates are highest among low-income and minority children. The disease and its symptom severity are associated with poor housing conditions, air pollution and inadequate medical services. Social consequences of the disease include educational setback, diminished physical activity, stress and decreased quality of life. Panelists will present on efforts at EPA, universities and in the community to measure asthma rates and identify biological and social risk factors. They will also present examples of and reflections on community-based participatory research efforts to study asthma through government-university-community partnerships.

Moderator:

H. Patricia Hynes, Professor, Department of Environmental Health, Boston University School of Public Health, Boston, MA

Marian Feinberg, Health Coordinator, South Bronx Clean Air Coalition, Bronx, NY

Studying Asthma in Collaboration: Reflections on Government - University - Community Research Partnerships

Ms. Feinberg will address the importance of developing partnerships between government, academia and community organizations and how these collaborations enhance our knowledge and environmental justice efforts. The presentation will also provide insight on the opportunities and challenges of building and maintaining effective partnerships.

Jonathan Levy, Assistant Professor, Department of Environmental Health, Harvard University School of Public Health, Boston, MA

Lung Function, Respiratory Symptoms and Quality of Life for Asthmatic Children in Public Housing in Boston, MA

Dr. Levy will present the prevalence of environmental, medical and social risk factors that may contribute to asthma morbidity in a cohort of asthmatic children in public housing. He will also review the relationship among various measures of respiratory impairment, and will conclude by evaluating whether the various risk factors evaluated are correlated with increased respiratory symptoms, decreased lung function or reduced quality of life.

MaryJane Selgrade, Chief, Immunotoxicology Branch, Experimental Toxicology Division, National Health and Environmental Effects Research Laboratory, EPA Office of Research and Development, Research Triangle Park, NC

EPA Office of Research and Development's Asthma Research Strategy

Dr. Selgrade will address the ongoing asthma research at EPA's National Health and Environmental Effects Research Laboratory. Current research efforts include both animal and human research to determine the effects of ambient air pollutants (particulates and gases) on the induction and exacerbation of asthma. The presentation will also highlight research on the potential for molds that contaminate the indoor environment to induce allergic lung disease.

Eileen Storey, Associate Professor, Division of Occupational and Environmental Medicine, and Director, Center for Indoor Environments and Health, University of Connecticut Health Center, Farmington, CT
Schools and Asthma: Opportunities for Disease Tracking and Prevention

Dr. Storey will address the distribution of asthma among Connecticut elementary school children, identify socioeconomic factors associated with varying rates of asthma and describe current risk factors in schools. She will also present evidence based on clinical and epidemiologic data which points to indoor environments as important contributors to both the severity and incidence of asthma.

Topic 3: Children's Environmental Health

Wednesday, May 26

9:00 am - 12:30 pm • Metcalf Large Ballroom

Overview

Children have unique susceptibility and often face higher exposure to environmental pollutants. Children of color are especially at risk for increased exposure to pollutants such as lead and mercury. This panel will focus on the opportunities afforded by community-based participatory research and cumulative risk assessment approaches to protecting children's health, with a special focus on children of color. The panel will first review the state of the science, highlighting what makes children especially vulnerable to environmental insults and reviewing what we know about the state of children's environmental health. Panelists will then present a case study on community-based participatory and/or cumulative risk approaches to assessing and decreasing environmental health risks. All panelists will conclude by addressing future research and policy needs and opportunities for protecting children's environmental health while advancing environmental justice.

Moderator:

Kristi N. Rea, Team Leader, Urban Environmental Program, EPA New England, Boston, MA

Sarah Keim, Program Office Coordinator, National Children's Study, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD

Understanding Environmental Influences on Children's Health and Development:

An Overview of the National Children's Study

Ms. Keim will present the National Children's Study, a large, long-term study of environmental influences, both helpful and harmful, on children's health and development. The study will examine children's growth and development over time and will produce information of unprecedented value for a range of core concerns including: obesity, diabetes and physical development; injuries; asthma; pregnancy-related outcomes; and child development and mental health.

Virginia Rauh, Associate Professor, Department of Population and Family Health, Columbia University Mailman School of Public Health, New York, NY

Putting Children's Environmental Health in a Social Context: Why Communities Matter

Dr. Rauh will present on the impact that the complete environment—including home and neighborhood level exposures and socioeconomic factors—has on children's health. Drawing from the findings from research at the Columbia Center for Children's Environmental Health, Dr. Rauh will share a framework for better understanding the impact of the social context on children's environmental health.

Concurrent Panel Presentation & Small Group Discussions (cont.)

Wednesday, May 26 • 9:00 am - 12:30 pm

Maryann Suero, Manager, Children's Health Program, and Coordinator, Aging Initiative, EPA Region 5, Chicago, IL

EPA and Children's Health

Dr. Suero will address how the EPA works with partners and stakeholders to improve children's environmental health where children live, learn and play. She will describe tools that are available to inform families and school communities about potential hazards and ways to prevent those hazards. She will also discuss some of the data gaps in children's environmental health and how EPA is working to fill those gaps.

Daniel Swartz, Executive Director, Children's Environmental Health Network, Washington, D.C.
Protecting Our Most Vulnerable: Using Community-based Participatory Research and Cumulative Risk Assessment for Children's Environmental Health

Rabbi Swartz will present on methods to delineate community vulnerability and focus on who is at greatest risk and why. He will also examine the importance of cumulative risk in assessing children's health, benefits from and obstacles to community participation in research and suggestions for improving research and policy directed to this area.

Ryan Torres, Director, Lead Action Collaborative, Tufts University, Medford, MA
Using a Community Assessment and Geographic Information Systems to Identify Boston's Most Vulnerable Areas

Mr. Torres will present a case study on the Lead Action Collaborative's efforts to better understand the environmental conditions in Boston neighborhoods that have the highest remaining childhood lead poisoning rates. The Lead Action Collaborative has created and piloted a Community Assessment Tool to assess neighborhood conditions on a street-by-street, address-specific basis and identify areas with a high risk of lead poisoning. The data gathered is mapped to identify the sub-areas of risk that still remain and require further investment of education, outreach, enforcement and mitigation to reduce risks to children.

Topic 4: Land-based Risks

Wednesday, May 26

9:00 am - 12:30 pm • East Balcony

Overview

Hazardous substances (i.e., chemicals, heavy metals, human and animal wastes, herbicides/pesticides, mixtures, etc.) pose serious environmental and human health risks to both urban and rural communities. The EPA has documented the effects of many of these substances over the past 30 years. Over 20 percent of the 1,500 sites listed on the EPA's National Priority List have contaminated sediments. Because each of the more than 800 currently definable hazardous substances found at these sites have their own properties and behaviors, the potential for exposure and the nature of the effects vary widely. Typical exposure pathways include dermal exposure, ingestion and inhalation. The vulnerability of environmental justice communities to contaminated sediments is further exacerbated by existing socioeconomic factors. The panelists will briefly touch on the state-of-the-science regarding land-based risks and will present case studies to illustrate the exposure and human health risks associated with contaminated sediments and their relation to environmental justice communities.

Moderators:

Robert Hillger, Senior Science Advisor and Office of Research and Development Regional Liaison, EPA New England, Boston, MA and

Ariel Iglesias, Senior Science Advisor and Office of Research and Development Regional Liaison, EPA Region 2, New York, NY

J. Kyle Bryant, Technical Advisor, Academic Institutions-Communities-Agencies Network, Fayetteville, GA
Redevelopment Challenges and the “Brown Houses” in Fort Valley, GA: A Case Study of the Impacts of the Woolfolk Chemical Works Superfund Site

Mr. Bryant will address the contamination issues present at the Woolfolk Chemical Works Superfund Site and its surrounding community, and will highlight some of the redevelopment challenges faced by the impacted community, the City, the nearby historically black university and federal agencies. Additionally, Mr. Bryant will explore the phenomenon of “Brown Houses,” the difficulties faced by the EPA to address this issue adequately and the subsequent regulatory gaps created when federal agencies fail to coordinate with one another to implement successful and sustainable solutions.

Gary Grant, Executive Director, Concerned Citizens of Tillery, NC and
Steve Wing, Associate Professor, Department of Epidemiology, University of North Carolina School of Public Health, Chapel Hill, NC

North Carolina Swine Production, Health and Environmental Justice

Mr. Grant and Dr. Wing will address community-driven studies of the disproportionate impacts of industrial swine production on low-income and African American communities in North Carolina. Industrial animal production impacts environmental health by contributing to climate change, cheap high fat food, regional energy imbalance, economic underdevelopment and exposures of local communities to hydrogen sulfide, endotoxin, nitrates and pathogens.

Jack Hale, Executive Director, Knox Parks Foundation, Hartford, CT
Soil Lead in a Neighborhood Community Garden

Mr. Hale will present the development of the Chestnut Street Community Garden in Hartford, CT, to exemplify problems and solutions related to lead contaminated soil in non-industrial areas. The presentation will encompass experiments with phytoremediation, and the impact of removal and replacement of contaminated soil on the surrounding community and on the project itself. It will emphasize questions raised about safety standards, public health, appropriate remediation methods and proper public education.

Glenn Rice, Environmental Health Scientist, National Center for Environmental Assessment, EPA
Office of Research and Development, Research Triangle Park, NC

Overview of EPA’s Draft Cumulative Risk Screening Guidance: Health Risk Assessments for Contaminated Sites

Mr. Rice will present an overview of the EPA’s draft cumulative risk screening guidance, which includes approaches for evaluating risks posed by exposures to multiple chemicals through multiple routes and for evaluating highly exposed or sensitive populations. Of particular importance are the potential roles of community groups in the planning, scoping and problem formulation steps and in the analytic screening provided in this methodology.

(continued)

Concurrent Panel Presentation & Small Group Discussions (cont.)

Wednesday, May 26 • 9:00 am - 12:30 pm

Nicholas Targ, Counsel, EPA Office of Environmental Justice, Washington, D.C.

Risk-Based Compliance Assurance Targeting: Addressing Environmental Justice by Matching Resources to Need

Mr. Targ will address the integration of environmental justice issues into targeting initiatives, focusing on land-based matters. EPA's Office of Enforcement Compliance and Assistance uses risk indicators, data and statistics on community health, compliance histories and other factors to guide its actions, target inspections, select cases for prosecution and direct resources to where they are needed most. In some cases this information comes directly from communities or local governments.

Topic 5: Water Quality

Wednesday, May 26

9:00 am - 12:30 pm • Terrace Lounge

Overview

In recent years, water quality problems have become serious environmental issues, particularly for low-income communities and communities of color. In urban, suburban and rural settings across the United States, these communities have had particularly low access to adequate drinking, surface and sewer water resources. Many people in these communities who rely on fish and other seafood as a significant part of their diet, have disproportionately high risks of exposure to contaminants such as mercury, polychlorinated biphenyls and dioxin, which have entered the aquatic habitat and have bioaccumulated in the fish. This panel will highlight research on fish consumption and contamination, community-identified research needs in the U.S. Virgin Islands, epidemiological and genetics research related to water quality and drinking water research efforts. It will conclude with a case study of a community-based effort to examine water quality along the Hudson River in upstate New York.

Moderator:

Reginald Harris, Environmental Justice Coordinator and Senior Toxicologist, EPA Region 3, Philadelphia, PA

Rebecca Calderon, Director, Human Studies Division, National Health Effects Research Laboratory, EPA Office of Research and Development, Research Triangle Park, NC

Epidemiologic Studies of Effects of Water Pollution on U.S. Populations

Dr. Calderon will present studies conducted by the EPA's Office of Research and Development on the effects of water pollution on populations in the United States. The types of water pollution studies to be highlighted include: arsenic in drinking water, microbial contaminants in drinking water and microbial contaminants in recreational water.

Present & Discuss

May A. Cornwall, Board President, Virgin Islands Resource Conservation and Development Council, Inc., St. Thomas, U.S. Virgin Islands

Water Quality in Our Unique Virgin Islands Environment

Ms. Cornwall will address the need for community-based participatory research to investigate the unique drinking and surface water quality needs of the Virgin Islands. Residential homes and business in the Virgin Islands that are not supplied with desalinated surface water depend on wells (ground water) or rain water stored in cisterns which has been collected on the roofs of the buildings for drinking water. The water quality of these sources is uncertain. Ms. Cornwall will also identify research gaps including the need to characterize the specific effects of sedimentation, landfill leachate, oil spills, and sewage, chemical and rum discharges on surface water quality.

Rodney Davis, Executive Director, Arbor Hill Environmental Justice Corporation, Albany, NY

Why is Water Important for Environmental Justice Communities?

Mr. Davis will present a multi-stakeholder effort supported by the EPA to investigate conditions along the Hudson River. He will discuss aspects of the effort and share findings from water quality testing in targeted areas.

Graciela Ramírez-Toro, Chair, Puerto Rico Subcommittee of the National Environmental Justice Advisory Council, and Director, Interamerican University of Puerto Rico Center for Environmental Conservation and Interpretation, San Juan, Puerto Rico

The Scientific Bases of Regulations as a Vehicle for Capacity Development in Small Rural Communities Served by Small Potable Water Systems

Dr. Ramirez-Toro will present an overview of the lessons learned from an effort spearheaded by the Interamerican University of Puerto Rico to integrate academia, local and federal government agencies and more than 300 local communities that obtain their water from small, private potable water systems. She will address the importance of capacity development at all levels of government, private and public sectors and integrating institutional-academic research and pilot efforts with communities in a participatory fashion. Dr. Ramirez-Toro will also evaluate the project as a pilot for the implementation of cumulative risk evaluation and prevention strategies.

Rita Schoeny, Senior Science Advisor, EPA Office of Water, Washington, D.C.

Contaminants in U.S. Fish and Seafood

Dr. Schoeny will present highlights of EPA programs that address contaminated fish and shellfish in the nation's waters. Bioaccumulation in seafood can be a major pathway of exposure of some populations to contaminants such as dioxins, polychlorinated biphenyls and mercury. EPA provides assistance to states and tribes in establishing and tracking advisories for fish and wildlife consumption to prevent exposures.

Wednesday, May 26

Azibuike Akaba, Community Technical Assistance Coordinator, Committee for West Oakland Revitalization, Oakland, CA

Mr. Akaba currently provides technical training on pollution monitoring and toxic site investigation to community groups and grassroots organization in his position at the committee for West Oakland Revitalization. As a certified medical technologist and hazardous materials specialist, Mr. Akaba provides scientific and technical expertise to community groups addressing industrial pollution problems and residential exposure. Mr. Akaba also helps plan campaigns with a special focus on toxic site investigations.

Presentation: Air Toxics

Roseann Bongiovanni, Director, Chelsea Green Space and Recreation Committee, Chelsea Human Services Collaborative, Chelsea, MA

Ms. Bongiovanni is the Director of the Chelsea Green Space and Recreation Committee, a broad-based community committee addressing some of the worst environmental issues in Chelsea. Since 1996, the Chelsea Green Space and Recreation Committee has undertaken more environmental protection and sustainable development projects, with a major focus on creating greater public access to a cleaner waterfront for Chelsea residents. In her capacity, Ms. Bongiovanni organizes the Chelsea Greenspace and Recreation Committee and serves on the Chelsea Creek Action Group.

Presentation: Assessing and Understanding Cumulative Risk in Environmental Justice Communities

J. Kyle Bryant, Technical Advisor, Academic Institutions-Communities-Agencies Network, Fayetteville, GA

As Director of Geographic Information Systems and Sustainable Development for an Atlanta-based engineering firm for the last seven years, J. Kyle Bryant managed the Brownfields Economic Redevelopment Initiatives for both the cities of Atlanta and Fort Valley, GA. He now serves as the Technical Advisor to the Academic Institutions-Communities-Agencies Network, an organization designed to foster collaborative relationships between Historically Black Colleges and Universities and environmentally impacted communities of color. Lastly, he continues to serve on the Technical Advisory Boards of several state and federal agencies including the Agency for Toxic Substances and Disease Registry and the Georgia Environmental Protection Division.

Presentation: Land-based Risks

Rebecca Calderon, Director, Human Studies Division, National Health Effects Research Laboratory, EPA Office of Research and Development, Research Triangle Park, NC

Dr. Calderon joined the EPA Office of Health Research as a program manager in 1989 with several years of experience. In 1997, she became Chief of the Epidemiology & Biomarkers Branch in the Human Studies Division, and was later appointed Acting Director of the Human Studies Division. Dr. Calderon has published on both recreational waters and drinking water epidemiology, including over 60 articles, three books and six book chapters. She is an internationally-recognized expert in the epidemiology of drinking and recreation water.

Presentations: Community-Based Participatory Research in Urban, Suburban, and Rural Environmental Justice Communities and Water Quality

Michael Callahan, Senior Science Advisor and Office of Research and Development Regional Liaison, EPA Region 6, Dallas, TX

An organic chemist by training, Mr. Callahan has been working in the risk assessment field for EPA for the past 27 years, including work at various times for EPA's Water, Toxics and Research programs in Washington, D.C. He is the chair of the agency's Technical Panel on Cumulative Risk Assessment, which developed the 2003 publication *Framework for Cumulative Risk Assessment*. Mr. Callahan has also been involved as a technical advisor to various EPA environmental justice teams since 1997.

Presentations: Assessing and Understanding Cumulative Risk in Environmental Justice Communities and Closing Session

Stacey Chacker, Director, Community Building and the Environment, Neighborhood of Affordable Housing, East Boston, MA

Ms. Chacker is the Director of Community Building and the Environment at the Neighborhood of Affordable Housing (NOAH) whose mission is to expand the supply of quality affordable housing and foster economic growth, especially through home ownership. In her capacity at NOAH, Stacey is responsible for organizing the Chelsea Creek Action Group, whose mission is resident-led transformation of Chelsea Creek (and its tributary Mill Creek) into an ecological, recreational, economic, and educational resource for the communities of East Boston and Chelsea, which are two of the five most environmentally burdened urban areas in Massachusetts.

Presentation: Assessing and Understanding Cumulative Risk in Environmental Justice Communities

May A. Cornwall, Board President, Virgin Islands Resource Conservation and Development Council, Inc., St. Thomas, U.S. Virgin Islands

Ms. Cornwall is currently the Board President of the Virgin Islands Resource Conservation and Development Council, Inc. and also holds the position of Research and Grants Administrator at the Virgin Islands Water & Power Authority. Her previous experience includes ten years with the Department of Public Works where she served as Environmental Engineer, Director of Environmental Engineering Services and Chief Engineer. Her academic background and professional career assignments have spanned from strategic planning, research and development, and program design and management to technical support, project management, and operations management.

Presentation: Water Quality

Rodney Davis, Executive Director, Arbor Hill Environmental Justice Corporation, Albany, NY

Mr. Davis is the Executive Director of the Arbor Hill Environmental Justice Corporation, a nonprofit corporation which acts as an environmental health and environmental rights advocate of the Greater Capital District region of New York state. Mr. Davis is a member of the New York State Environmental Justice Advisory Group, which has crafted a working document of environmental justice policy recommendations to the Commissioner of the New York Department of Environmental Conservation. Mr. Davis educates residents on a range of environmental justice issues including subsistence fishing, watershed management, water quality monitoring and Brownfields.

Presentation: Water Quality

Biographies (cont.)

Marian Feinberg, Health Coordinator, South Bronx Clean Air Coalition, Bronx, NY

Ms. Feinberg is the new chair of the New York City Asthma Partnership, a collaboration between government, academia, community-based organizations and health care providers. Her organization, the South Bronx Clean Air Coalition, is involved in two community-based participatory asthma-related research and education projects. The first project involves mapping asthma hospitalization data in small census areas surrounding highways and Toxic Release Inventory facilities using Geographic Information Systems. The second project involves stationary monitoring at schools in areas highly impacted by diesel traffic.

Presentation: Asthma

Gary Grant, Executive Director, Concerned Citizens of Tillery, NC

Mr. Grant has been the Executive Director of the internationally acclaimed Concerned Citizens of Tillery for the past 22 years. He also is the founding president of the national Black Farmers and Agriculturalists Association and the director of the National Land Loss Fund. Mr. Grant participates on the EPA's Environmental Justice Enforcement Roundtable Taskforce, the African American Environmental Action Justice Network Advisory Board and the Groundwater Foundation's Symposium Executive Committee, and serves as the convener of the North Carolina Hog Roundtable. Mr. Grant was also a member of the planning committee for Who Owns America Conference III, Land Tenure Center, University of Wisconsin-Madison.

Presentations: Community-based Participatory Research in Urban, Suburban and Rural Environmental Justice Communities and Land-based Risks

Jack Hale, Executive Director, Knox Parks Foundation, Hartford, CT

Mr. Hale has been involved in community gardening on urban soils since 1975. His organization has dealt with various aspects of contamination and risk management from phytoremediation, to addressing impacts on property values, to communicating with fearful neighborhood residents and concerned public health and development officials. In addition to this local involvement, he has been a catalyst for discussions of soil contamination at the state level and also among the international American Community Gardening Association, of which he is a past president.

Presentation: Land-based Risks

Reginald Harris, Environmental Justice Coordinator and Senior Toxicologist, EPA Region 3, Philadelphia, PA

In several years at EPA, Mr. Harris's experiences include reviewing and writing risk assessments for Superfund sites, working as the lead toxicologist for the Chester Risk Study and serving as technical advisor to the South/Southwest Philadelphia Environmental Risk Study. Before coming to EPA, Mr. Harris conducted scientific research with Johns Hopkins University and the U.S. Army in the field of immunochemistry. He has also worked for the state of Maryland as an industrial hygienist in the Lead Poisoning Prevention Program and as Program Manager of the federally-funded Baltimore Soil Lead Abatement Demonstration Project.

Presentations: Assessing and Understanding Cumulative Risk in Environmental Justice Communities and Water Quality

Robert Hillger, Senior Science Advisor and Office of Research and Development Regional Liaison, EPA New England, Boston, MA

Mr. Hillger joined EPA in 1984 and currently serves as the Science Advisor and Office of Research and Development (ORD) Liaison to the EPA New England Administrator. Mr. Hillger spent the last 20 years working for ORD in a variety of capacities. Mr. Hillger served as Senior Manager of ORD's Oil Spills research and Underground Storage Tank (UST) program; designed and fabricated the National UST Test Facility; provided oversight of world's largest Ocean Simulation Test Tank; founded the EPA's Regional and National Science Councils; and worked as an Advisor for Regional Administrators in EPA New England, Regions 7 and 9. Mr. Hillger also was Director of EPA New England's EMPACT program which was responsible for bringing in

millions of dollars to support real time environmental monitoring in our New England communities. Mr. Hillger has numerous peer-reviewed journal publications and has served on both national and international science committees in support of agency issues.

Presentation: Land-based Risks

H. Patricia Hynes, Professor, Department of Environmental Health, Boston University School of Public Health, Boston, MA

See keynote presenter biography on pg. 9

Presentations: Keynote Speech, Asthma and Closing Session

Ariel Iglesias, Senior Science Advisor and Office of Research and Development Regional Liaison, EPA Region 2, New York, NY

Mr. Iglesias began his career at EPA in 1993 working in the Director's Office of the Caribbean Environmental Protection Division at Region 2. During his career at EPA he has been responsible for coordinating and overseeing a number of water quality programs in Puerto Rico and the U.S. Virgin Islands. Ariel also served as Special Assistant to the Acting Regional Administrator in 2001. He serves as the Office of Research and Development Liason to EPA Region 2.

Presentation: Land-based Risks

Sarah Keim, Program Office Coordinator, National Children's Study, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD

Ms. Keim currently handles the strategic planning, project management, information technology, communications and budget functions for the National Children's Study for the National Institute of Child Health and Human Development at the National Institutes of Health (NIH). She also serves as a member of the Interagency Coordinating Committee and as a liaison to the Health Disparities and Environmental Justice Working Group and the Community Outreach and Communications Working Group. She has previously worked for the National Institute of Environmental Health Sciences, the Office of Legislative Policy and Analysis at NIH, the U.S. House of Representatives Commerce Committee, the National Cancer Institute and the state of Wisconsin.

Presentation: Children's Environmental Health

Jonathan Levy, Assistant Professor, Department of Environmental Health, Harvard University School of Public Health, Boston, MA

Dr. Levy's research centers on developing models to quantitatively assess the environmental and health impacts of air pollution from local to national scales, with a focus on urban settings. His current research in the Healthy Public Housing Initiative includes a study of risk factors for asthma development and an evaluation of the efficacy of interventions in the indoor environment for improving the health and well-being of asthmatic children in Boston Public Housing.

Presentation: Asthma

Mildred McClain, Executive Director, Citizens for Environmental Justice, Savannah, GA

Dr. McClain is the Executive Director of Citizens for Environmental Justice, Inc., the Harambee House, Inc., and the Southern Association of Black Educators, Inc. Dr. McClain has worked as a human rights activist for 30 years and as a teacher, administrator and consultant. Her work experience includes: Executive Director of Hands Across America of Georgia and the Georgia Citizens Coalition on Hunger; Project Director of the Georgia Citizens Coalition on Hunger; Project Director of the Morris Brown College Learning Resources Center; Project Director of the Florida Clearinghouse on Prisons & Jails and Senior Consultant for Educational Enterprises.

Presentation: Closing Session

Biographies (cont.)

Rachel Morello-Frosch, Assistant Professor, Department of Community Health, Brown University Medical School and Center for Environmental Studies, Providence, RI

Dr. Morello-Frosch's research examines race and class determinants of the distribution of health risks associated with air pollution among diverse communities in the United States. Specifically, her current work focuses on: comparative risk assessment and environmental justice, developing models for community-based environmental health research, science and environmental health policy-making, children's environmental health and the intersection between economic restructuring and community environmental health. She is also collaborating with scientists at the EPA on research examining children's health and ambient air toxics.

Presentation: Air Toxics

Ted Palma, Physical Scientist, Risk and Exposure Assessment Group, EPA Office of Air Quality Planning and Standards, Research Triangle Park, NC

Mr. Palma plays a key role in many of the EPA's current exposure and risk assessments such as the National Scale Assessment, residual risk assessments and several community-scale assessments. Prior to joining the EPA, Mr. Palma, who is a certified consulting meteorologist, spent 17 years as an environmental consultant servicing both government and industry-based clients over a wide range of assignments in the air quality and meteorological sectors.

Presentation: Air Toxics

Devon Payne-Sturges, Environmental Health Scientist, Public Health and Environmental Policy Team, National Center for Environmental Economics, EPA Office of Policy, Economics and Innovation, Washington, D.C.

Dr. Payne-Sturges is an environmental health scientist with the EPA Office of Policy, Economics and Innovation's National Center for Environmental Economics. Her areas of research include use of exposure bio-monitoring for policy analysis, risk assessment, environmental health indicator development, community-based exposure assessment and the environmental health of minority populations. She possesses a doctoral degree in environmental health sciences from John Hopkins Bloomberg School of Public Health. Prior to joining EPA, Dr. Payne-Sturges served as Assistant Commissioner for Environmental Health at the Baltimore City Health Department.

Presentation: Air Toxics

Swati Prakash, Director of Environmental Health, West Harlem Environmental Action, Bronx, NY

See conference convener biography on pg. 9

Presentations: Convener and Community-based Participatory Research in Urban, Suburban and Rural Environmental Justice Communities

Graciela Ramírez-Toro, Chair, Puerto Rico Subcommittee of the National Environmental Justice Advisory Council, and Director, Interamerican University of Puerto Rico Center for Environmental Conservation and Interpretation, San Juan, Puerto Rico

Dr. Ramírez-Toro is an Associate Professor at the Interamerican University of Puerto Rico, and Director of the University's Center for Environmental Conservation and Interpretation. She is a member of the National Drinking Water Advisory Council and of the National Environmental Justice Advisory Council. Dr. Ramírez's research interests include drinking water quality and environmental microbiology, and she has been co-author of a number of scientific publications.

Presentation: Water Quality

Virginia Rauh, Associate Professor, Department of Population and Family Health, Columbia University Mailman School of Public Health, New York, NY

Ms. Rauh, a perinatal epidemiologist, is Co-Deputy Director of the Columbia Center for Children's Environmental Health. Ms. Rauh is a co-investigator on a study of the health effects of environmental pollutants on pregnant mothers and children. She is also the principal investigator of a CDC-funded study of the relationship between stress, infection and pre-term delivery, and a university-community partnership to assess developmental outcomes in a cohort of New York City Head Start children. Her work has focused on the reproductive health outcomes of inner-city minority women in an effort to understand the factors contributing to low birth weight and child development problems.

Presentation: Children's Environmental Health

Kristi N. Rea, Team Leader, Urban Environmental Program, EPA New England, Boston, MA

Ms. Rea is the Team Leader of the Urban Environmental Program (UEP) at EPA New England. The UEP facilitates community-based environmental protection in targeted cities by listening to community needs and concerns, identifying projects and providing resources and technical assistance to implement projects that make measurable improvements in public health and the quality of the urban environment. Ms. Rea's work at EPA New England earned a Gold Medal for Exceptional Service, an Environmental Merit Award, several community honors, and congressional recognition. Prior to joining EPA's staff in 1997, Ms. Rea worked for three years as Manager of International Community Relations, at Molten Metal Technology, Inc. headquartered in Waltham, MA. Molten Metal Technology, Inc., is an environmental recycling technology firm commercializing a range of innovative "elemental recycling" programs for hazardous, toxic and radioactive wastes.

Presentation: Children's Environmental Health

Glenn Rice, Environmental Health Scientist, National Center for Environmental Assessment, EPA Office of Research and Development, Research Triangle Park, NC

Mr. Rice was appointed to the position of Environmental Health Scientist with the EPA's National Center for Environmental Assessment (NCEA) in 1990. His research interest is in human health risk assessment methods. He has led NCEA's multimedia exposure assessment team and NCEA's comparative risk assessment project team. He is one of the primary authors of the EPA's Mercury Study Report to Congress and EPA's Chemical Mixtures Guidance, and has also served as the President of the Ohio Chapter for the Society of Risk Analysis.

Presentation: Land-based Risks

Madeleine Kangsen Scammell, Doctoral Student, Department of Environmental Health, Boston University School of Public Health, Boston, MA

Ms. Scammell has worked as the Outreach Coordinator for the Boston University (BU) Superfund Basic Research Program (SBRP) since 2001. In this capacity she has developed collaborative projects with community partners, including a collaboration between SBRP outreach partners Toxics Action Center and Greater Boston Physicians for Social Responsibility on a successful National Institute for Environmental Health Sciences R25 report, *Community Environmental Health Research: Finding Meaning*. Prior to coming to BU, Ms. Scammell worked with several nonprofit organizations promoting community-based participatory research methods. She serves on the boards of directors for the Southeast Community Research Center and the Science & Environmental Health Network.

Presentation: Community-based Participatory Research in Urban, Suburban and Rural Environmental Justice Communities

Rita Schoeny, Senior Science Advisor, EPA Office of Water, Washington, D.C.

Since 1986, Dr. Schoeny has held various positions at EPA including Associate Director of the Health and Ecological Criteria Division of the Office of Science and Technology; Chief of the Methods Evaluation and Development Staff, Associate Director of the National Center for Environmental Assessment in Cincinnati, OH, and Chair of the Agency-wide Workgroup on Cancer Risk Assessment at the Office of Research and Development. Dr. Schoeny has published in the areas of metabolism and mutagenicity of polychlorinated biphenyls and polycyclic aromatic hydrocarbons, assessment of complex environmental mixtures, health and ecological effects of mercury, drinking water contaminants and principles of human health risk assessment. She was a lead and coauthor of the Mercury Study Report to Congress and was a principal scientist and manager for the Ambient Water Quality Criterion for Methylmercury.

Presentation: Water Quality

MaryJane Selgrade, Chief, Immunotoxicology Branch, Experimental Toxicology Division, National Health and Environmental Effects Research Laboratory, EPA Office of Research and Development, Research Triangle Park, NC

Dr. Selgrade is an immunotoxicologist who has published research on both immunosuppressive effects of environmental contaminants and consequences for enhanced risk of infection and on potential for environmental contaminants to impact allergic disease. Her branch has developed several animal models of allergic lung disease. These models are being used to probe the potential for air pollutants to enhance the induction of allergy and asthma and to study the potential allergenicity of various indoor molds.

Presentation: Asthma

Peggy Shepard, Executive Director, West Harlem Environmental Action, New York, NY

Ms. Shepard is executive director and co-founder of West Harlem Environmental Action, New York's first environmental justice organization created to improve environmental health and quality of life in communities of color. Ms. Shepard served from 2001-2003 as the first female chair of the National Environmental Justice Advisory Council to the EPA, is co-chair of the Northeast Environmental Justice Network and is a member of the National Advisory Environmental Health Sciences Council of the National Institutes of Health. Ms. Shepard has authored several articles on environmental justice and community-based participatory research and served as guest editor of a special supplement of *Environmental Health Perspectives*, "Advancing Environmental Justice Through Community-based Participatory Research," which was published in 2002.

Presentation: Community-based Participatory Research in Urban, Suburban and Rural Environmental Justice Communities

Eileen Storey, Associate Professor, Division of Occupational and Environmental Medicine, and Director, Center for Indoor Environments and Health, University of Connecticut Health Center, Hartford, CT

Dr. Storey is the Director of the Center for Indoor Environments and Health at the University of Connecticut Health Center. Dr. Storey, an occupational medicine physician, works with a team of physicians, nurses, industrial hygienists and environmental health specialists to evaluate the impact of indoor environments on health, particularly respiratory conditions. She is also working to develop surveillance systems for asthma in conjunction with the Connecticut Department of Public Health and the Asthma Regional Council. In addition to her work in occupational and environmental health, she was recently named Co-Director of a new Center for Public Health and Health Policy for the University of Connecticut.

Presentation: Asthma

Wilma Subra, Louisiana Environmental Action Network, Baton Rouge, LA

Ms. Subra provides assistance to citizens concerned with their environment by combining technical research and evaluation into information that is then presented to community members so that strategies may be developed to address their local struggles. Utilizing the information gained from community involvement, the needs identified are translated into policy changes at the state and federal levels through service on multi-stakeholder committees. Mrs. Subra is an active member of a number of EPA National Advisory Committees including the National Environmental Justice Advisory Council and is vice-chair of the EPA National Advisory Council for Environmental Policy and Technology.

Presentations: Assessing and Understanding Cumulative Risk in Environmental Justice Communities and Air Toxics

Maryann Suero, Manager, Children's Health Program, and Coordinator, Aging Initiative, EPA Region 5, Chicago, IL

Dr. Suero is a toxicologist with many years of experience and specific expertise in exposure assessment and analysis. She participates in statewide asthma and lead poisoning prevention efforts in Illinois, Indiana and Michigan, as well as in the development of lead poisoning prevention strategies in Chicago and Detroit. Dr. Suero is also an adjunct assistant professor at the University of Illinois at Chicago School of Public Health.

Presentation: Children's Environmental Health

Daniel Swartz, Executive Director, Children's Environmental Health Network, Washington, D.C.

Rabbi Swartz is the Executive Director of the Children's Environmental Health Network (CEHN), a national organization devoted to protecting children from environmental health hazards through protective policies, professional education, public outreach and targeted research initiatives. CEHN works cooperatively with a wide variety of organizations, including health care professionals, faith-based organizations and environmental justice groups. Rabbi Swartz is a published children's book author. He has also published both peer reviewed and popular science articles on issues ranging from plant ecology to global climate change, op-eds in national papers and studies of religious traditions and environmental values.

Presentation: Children's Environmental Health

Nicholas Targ, Counsel, EPA Office of Environmental Justice, Washington, DC.

Mr. Targ is Counsel to the EPA Office of Environmental Justice. He is the principal legal/policy adviser and addresses a wide variety of environmental, civil rights and regulatory issues. Prior to joining EPA, he served as an attorney-adviser to the Office of the Solicitor, Department of the Interior, focusing on hazardous waste, natural resources, energy and tribal issues. Mr. Targ has written and lectured extensively on environmental and natural resources law and policy. He is the founding Co-Chair of the American Bar Association's Environmental Justice Committee for the Section of Environment, Energy and Resources, and a past a Director of the Bar Association of the District of Columbia's Environmental Law Section. Mr. Targ earned his law degree from Boston College Law School in 1993. He also attended the Massachusetts Institute of Technology, Department of Urban Studies and Planning, and received his bachelor's degree in 1988 from the University of California, Santa Cruz, in Politics/Legal Studies, and Economics. He is admitted to the bar of California.

Presentation: Land-Based Risks

Biographies (cont.)

Ryan Torres, Director, Lead Action Collaborative, Tufts University, Medford, MA

Mr. Torres's responsibilities include the implementation of the Blueprint to End Childhood Lead Poisoning in Boston, a strategy developed by legislators, policy makers, government officials and community leaders, that will eliminate the problem by 2008. He is a member of the Boston Urban Asthma Coalition Steering Committee and the Childhood Lead Poisoning Prevention Program Advisory Committee for the Strategic Plan to End Lead Poisoning by 2010.

Presentation: Children's Environmental Health

Timothy H. Watkins, Assistant Laboratory Director, National Exposure Research Laboratory, EPA Office of Research and Development, Research Triangle Park, NC

Mr. Watkins's current responsibilities at EPA include the coordination and communication of the National Exposure Research Laboratory's Air and Mercury research programs and participation in the cross-agency planning group for the EPA's Persistent Bioaccumulative Toxics (PBT) Program. The PBT Program coordinates the EPA's multimedia efforts to address exposure and risk from these toxics, which include mercury, dioxin and polychlorinated biphenyls. Mr. Watkins has also worked in the Office of Air Quality Planning and Standards of the EPA's Office of Air and Radiation.

Presentation: Air Toxics

Steve Wing, Associate Professor, Department of Epidemiology, University of North Carolina School of Public Health, Chapel Hill, NC

Dr. Wing conducts research on environmental justice, health effects of ionizing radiation, and community health effects of industrial swine production. He has collaborated on health studies with communities and workers impacted by the nuclear industry, industrial animal production and other environmental and occupational threats. He has provided testimony on public health issues to the U.S. Senate, the U.S. House of Representatives, the EPA, the U.S. Department of Agriculture, the National Academy of Sciences and other federal, state and local government agencies and is a founding member of the University of North Carolina Progressive Faculty Network and the North Carolina Environmental Justice Network.

Presentations: Community-based Participatory Research in Urban, Suburban and Rural Environmental Justice Communities and Land-based Risks

Special Thanks

It is my distinct pleasure to extend my gratitude to all of my colleagues in EPA and our external partners both at the Boston University School of Public Health and at the community level for their unyielding contributions, commitment and dedication to the planning and implementation of the Science of Environmental Justice Working Conference. It is my firm belief and hope that this conference will foster an increased understanding among the participants, EPA scientists and communities throughout the country, making each more aware of the need



to incorporate community-based participatory research in any scientific approach and to take actions which ensure that all citizens most in need of environmental and public health protection are the direct beneficiaries of a dedicated set of actions.

On behalf of all the participants, I wish to extend a very special thanks to EPA's Office of Research and Development for their forward-thinking and for providing the funds which allowed us to bring together diverse and multi-stakeholder groups of communities, government and academia at this groundbreaking event.

James M. Younger

Director, EPA New England Office of Civil Rights & Urban Affairs

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Accessibility

The Science of Environmental Justice Working Conference is being held in a fully accessible facility. Should you have specific needs or questions about this facility or transportation, please contact:

Stacia Henderson and Brandie Blakely

Conference Support Contractors, Native American Management Services, Inc.

Available at the conference registration table during all conference hours. You may reach Ms. Henderson and Ms. Blakely by calling The Colonnade Hotel switchboard at **617-242-7000**.

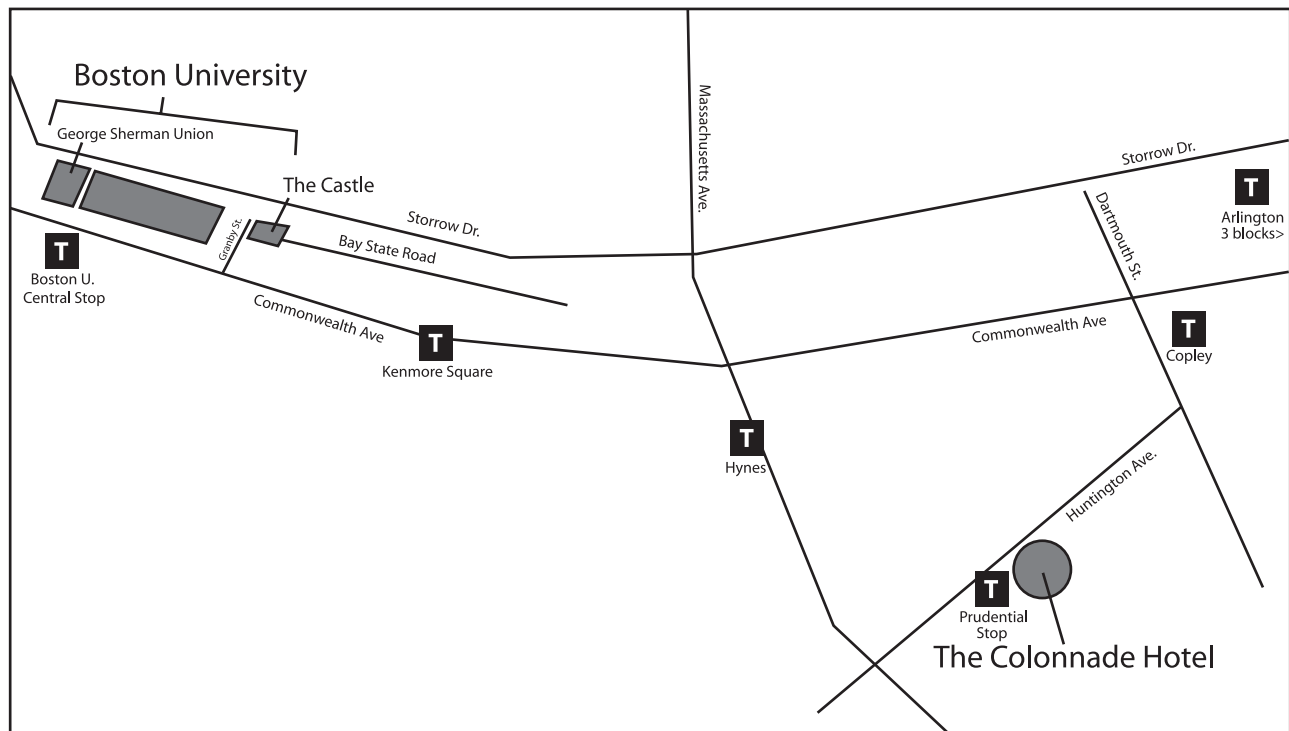
Transportation

Free Shuttle Service

Free shuttle service will be provided on Tuesday, May 25, 2004 and Wednesday, May 26, 2004 between The Colonnade Hotel and Boston University's George Sherman Union. Scheduled times will be provided upon hotel check-in. For more information, visit the front desk or call The Colonnade Hotel at 617-424-7000.

Public Transit

The Boston University Central T Stop on the Green B Line is located close to Boston University's George Sherman Union. The Prudential T Stop on the Green E Line is located directly outside the front of The Colonnade Hotel.



From The Colonnade Hotel to the George Sherman Union: From Prudential Station, take a Green E (Lechmere) train eastbound to Arlington Station. Transfer to a Green B (Boston College) train westbound (you must cross the tracks). (Note that you cannot transfer to the Green B Line westbound at Copley Station without paying the fare again.) Take the train to the Boston University Central Stop, which is the third above-ground stop. You will exit the train on the westbound side of Commonwealth Avenue. Cross the westbound side of Commonwealth Avenue toward Marsh Chapel, a stone chapel set back from the street. Continue walking westbound on Commonwealth Avenue about 200 ft. past Marsh Chapel and the George Sherman Union will be on the right.

From the George Sherman Union to The Colonnade Hotel: From the Boston University Central Stop, take a Green B (Boston College) train eastbound to Arlington Station. Transfer to a Green E (Heath Street) train westbound (you must cross the tracks). (Note that you cannot transfer to the Green E Line westbound at Copley Station without paying the fare again.) Take the train to the Prudential Station. The Colonnade Hotel is across the street from the station.